

CLAIMS

1. A wall saw accessory for an aerial work platform, wherein a wall saw is movably affixed on a track secured to a wall to be sawed, the wall saw accessory comprising:

a saw/track manipulator fixable to the aerial work platform, the saw/track manipulator movably supporting the track and saw and enabling positioning of the saw and track to and from a working position; and

a hydraulic power source coupled with a water supply and providing hydraulic power and coolant flow to the wall saw.

2. A wall saw accessory for an aerial work platform according to claim 1, wherein the saw/track manipulator comprises:

a bottom bracket securable to the aerial work platform and supporting a lateral rail;

a sliding bracket movably mounted on the lateral rail;

a telescope assembly secured to the sliding bracket, the telescope assembly including a hydraulically assisted lifting arm; and

a rotatable track support assembly attached to the lifting arm of the telescope assembly via at least one structural link, the track support assembly including holding brackets for holding the track during installation and removal.

3. A wall saw accessory for an aerial work platform according to claim 1, wherein the saw/track manipulator is constructed to enable positioning of the saw and track with five degrees of freedom.

4. A wall saw accessory for an aerial work platform according to claim 1, wherein the hydraulic power source is coupleable with the saw via a quick-connect coupler.

5. A wall saw accessory for an aerial work platform according to claim 4, wherein the quick-connect coupler comprises an emergency disconnect feature,

disconnecting the coupling when an operator attempts to move the aerial work platform while it is connected to the saw mounted on the wall.

6. A wall saw accessory for an aerial work platform according to claim 1, further comprising a pressure washer system connected with the hydraulic power source.

7. A wall saw accessory for an aerial work platform according to claim 6, wherein the pressure washer system comprises a water pump, a spray nozzle, a hose, and a pressure adjustment mechanism.

8. A wall saw accessory for an aerial work platform according to claim 6, wherein the hydraulic power source further comprises a toggle switch for the wall saw and the pressure washer system such that only one is operable at a time.

9. A lift vehicle comprising:

an aerial work platform; and

a wall saw accessory coupled to the aerial work platform, wherein a wall saw is movably affixed on a track secured to a wall to be sawed, the wall saw accessory comprising:

a saw/track manipulator fixed to the aerial work platform, the saw/track manipulator movably supporting the track and saw and enabling positioning of the saw and track to and from a working position, and

a hydraulic power source coupled with a water supply and providing hydraulic power and coolant flow to the wall saw.

10. A lift vehicle according to claim 9, wherein the saw/track manipulator comprises:

a bottom bracket secured to the aerial work platform and supporting a lateral rail;

a sliding bracket movably mounted on the lateral rail;

a telescope assembly secured to the sliding bracket, the telescope assembly including a hydraulically assisted lifting arm; and

a rotatable track support assembly attached to the lifting arm of the telescope assembly via at least one structural link, the track support assembly including holding brackets for holding the track during installation and removal.

11. A lift vehicle according to claim 10, wherein the saw/track manipulator is constructed to enable positioning of the saw and track with five degrees of freedom.

12. A lift vehicle according to claim 9, wherein the hydraulic power source is coupleable with the saw via a quick-connect coupler.

13. A lift vehicle according to claim 9, further comprising a pressure washer system connected with the hydraulic power source.

14. A lift vehicle according to claim 13, wherein the pressure washer system comprises a water pump, a spray nozzle, a hose, and a pressure adjustment mechanism.

15. A lift vehicle according to claim 13, wherein the hydraulic power source further comprises a toggle switch for the wall saw and the pressure washer system such that only one is operable at a time.

16. A lift vehicle according to claim 9, further comprising a chassis, wherein the water supply comprises at least one water tank mounted to the chassis.

17. A lift vehicle according to claim 16, wherein the water supply comprises two water tanks saddle mounted on the chassis.

18. A lift vehicle according to claim 9, wherein the hydraulic power source comprises a hydraulic pump used to power a drive system of the lift vehicle.

19. A method of constructing a lift vehicle with wall saw accessory, the method comprising:

movably affixing a wall saw on a track;

securing the wall saw accessory to an aerial work platform by fixing a saw/track manipulator to the aerial work platform, the saw/track manipulator movably supporting the track and saw and enabling positioning of the saw and track to and from a working position; and

coupling a hydraulic power source with a water supply, the hydraulic power source providing hydraulic power and coolant flow to the wall saw.

20. A method according to claim 19, wherein the saw/track manipulator is constructed by the steps of:

securing a bottom bracket to the aerial work platform, the bottom bracket supporting a lateral rail;

movably mounting a sliding bracket on the lateral rail;

securing a telescope assembly to the sliding bracket, the telescope assembly including a hydraulically assisted lifting arm; and

attaching a rotatable track support assembly to the lifting arm of the telescope assembly via at least one structural link, the track support assembly including holding brackets for holding the track during installation and removal.

21. A coolant circuit providing coolant flow for an aerial work platform accessory of a lift vehicle, the coolant circuit comprising a hydraulically powered pump coupled with source of hydraulic power and a water supply to provide coolant flow to the aerial work platform accessory.

22. A coolant circuit according to claim 21, wherein the water supply comprises at least one water tank mounted to a chassis of the lift vehicle.

23. A pressure washer system integrated with an aerial work platform including the cooling circuit of claim 21, the pressure washer system comprising a spray nozzle, a hose, and a pressure adjustment mechanism.